



### REVIEWER'S REPORT

Manuscript No.: IJAR-50681

Date: 17-03-2025

**Title: Influence of composting methods on compost maturity and quality**

**Recommendation:**

- Accept as it is.....**YES**.....
- Accept after minor revision.....
- Accept after major revision .....
- Do not accept (*Reasons below*) .....

Rating	Excel.	Good	Fair	Poor
Originality	√			
Techn. Quality		√		
Clarity		√		
Significance			√	

**Reviewer's Name:** Mir Jaffar

**Reviewer's Decision about Paper:**      **Recommended for Publication.**

**Comments** (*Use additional pages, if required*)

### **Reviewer's Comment / Report**

This study presents a comprehensive evaluation of different composting methods and their impact on compost maturity, quality, and suitability for agricultural use, particularly in the cultivation of okra (*Abelmoschus esculentus*). The research effectively integrates multiple composting techniques, assessing their ability to produce stable, nutrient-rich compost while also considering the implications for soil health and crop productivity.

The abstract provides a clear summary of the research objectives, methodology, and key findings. The inclusion of eight distinct composting methods ensures a broad comparative analysis, offering valuable insights into their respective efficiencies. The study's dual focus—evaluating compost maturity and assessing its agronomic impact on okra—adds depth to the research, making it relevant for both soil scientists and agricultural practitioners.

The methodology is well-structured, incorporating both physicochemical and biological parameters to determine compost maturity. The study's findings highlight the superior performance of Varanashi composting, aerobic composting with cow dung, and vermicomposting in terms of compost recovery, nutrient content, and crop yield. Notably, the substitution of cow dung with microbial cultures (*Bacillus subtilis* and *Trichoderma* with worms) provides a viable alternative for composting in scenarios where cow dung availability is limited.

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The introduction contextualizes the importance of composting within agricultural sustainability, referencing relevant literature to support the study's rationale. The discussion on compost maturity, phytotoxicity, and soil nutrient enhancement further reinforces the significance of composting methods in sustainable farming practices.

Overall, the research is well-executed, with clear scientific rigor and practical applicability. The findings contribute valuable knowledge to organic waste management and soil fertility enhancement, demonstrating the potential of different composting techniques in improving compost quality and crop performance.